New Hampshire Bureau of Radiological Health Radiation Machine Inspection Checklist

This list is intended to cover the items most likely to be reviewed during routine inspections. It cannot mention every item an inspector may wish to see. Requirements related to the machines themselves are not given. Complete requirements may be found in applicable portions of the New Hampshire Rules for the Control of Radiation. If you have questions, please call us (603-271-4588).

Items in square brackets [] are references that establish a requirement or have a bearing on it.

<u>All sites</u>	
D 1' 4' (1 D 4020 04)	Film and cassette information, if applicable.
Radiation protection program. [He-P 4020.04]	[He-P 4045.03(m)]
Caution signs, if applicable.	Information and maintenance records.
[He-P 4022.12 and 4022.13(d)]	[He-P 4045.05]
Labels on machines. [He-P 4022.14 (and	Film processing equipment, facilities and supplies.
4046.01(b) for healing arts machines)]	[He-P 4045.07(a), (b), and (c)]
D (11 D 4010 02(1) () C	Darkroom access control, if applicable.
Postings per He-P 4019.03(b) or (c) of:	[He-P 4045.07(c)(6)]
Parts He-P 4019 through 4022 of the Rules;	Records of periodic fluoroscopic exposure rate
Current registration certificate; and	determinations. [He-P 4046.04(h)]
Procedures for activities under the registration;	Records of CT surveys, calibrations, spot checks,
<u>Or</u>	and operating procedures. [He-P 4046.12]
Notice describing any or all of the above three and	C 1 : (P 1 : 1 :
where they may be examined, if posting is not	<u>Cabinet Radiographic</u>
practicable.	It is in a set of the different into the first of the set of the s
Form 5, "Notice to Employees."	It is important to differentiate between cabinet
[He-P 4019.03(d)]	radiographic and analytical machines.
D 1 C	Operating procedures for each unit.
Records of: Records of:	[He-P 4034.04(a)(1)]
Receipt, transfer, and disposal of radiation	Records of semi-annual tests of interlocks.
machines. [He-P 4001.03]	[He-P 4034.04(a)(2)] Records of annual evaluation of compliance with
Radiation protection program reviews. [He-P 4021.02(b)]	He-P 4020.13(a) through (f) and 21 CFR 1020.40.
Surveys (= evaluations) of radiation conditions.	[He-P 4034.04(a)(3)]
[He-P 4022.01 and 4021.03]	(For non-cabinet radiographic machines, review the
Prior occupational dose (if applicable).	requirements of Part He-P 4034 except Section
[He-P 4020.09 and 4021.05]	He-P 4034.04.)
Individual monitoring, e.g., film badge results, if	110 1 103 1.0 1.)
applicable. [He-P 4022.02(b), 4020.11, 4020.12,	Analytical
and 4021.07]	<u> </u>
Doses to individual members of the public.	"X-Ray On" light and label. [He-P 4043.04(e)]
[He-P 4020.13, 4020.14, and 4021.08]	Warning device purpose labels. [He-P 4043.04(i)]
Shielding evaluations for new and modified	Warning signs per He-P 4043.004(1).
facilities. [He-P 4040.04]	Records of surveys at installation, annually
	thereafter, and after modification, servicing, etc.
Diagnostic Healing Arts	[He-P 4043.05(c)]
	Normal operating procedures. [He-P 4043.06]
Technique charts for each machine.	Records of approvals to bypass safety devices, if
[He-P 4045.03(d)]	any. [He-P 4043.06(d)]
Written safety procedures.	Personnel monitoring (dosimetry) records, if
[He-P 4045.0(d) and 4045.03(l)]	dosimetry required. [He-P 4043.07(b) and/or (c)]
Holding devices, if applicable.	
[He-P 4045.03(l)]	
Gonadal shielding.	(Accelerators and therapy machines on the back.)
[He-P 4045.03(h)]	

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Accelerators

 Records of training and experience of particle
accelerator supervisors. [He-P 4044.04(a)]
Records of radiation safety committee
appointments, makeup, and training and of
proposals for human use, if applicable. [He-P
4044.05]
 Normal and emergency operating procedures.
[He-P 4044.06 and 4044.10(f)]
 Records of shielding design and of installation
survey. [He-P 4044.07]
 Records of quarterly interlock checks.
[He-P $4044.10(c)$]
Electrical circuit diagrams of accelerator and
interlocks. [He-P 4044.10(d)]
Records of interlock bypass. [He-P 4044.10(e)]
 Records of calibration and daily checks.
 [He-P 4044.11(a) and (h)]
 Records of changes in shielding, operation,
equipment, or occupancy and of surveys.
[He-P 4044.11(b)]
 Records of periodic surveys for airborne
particulate radioactivity, if applicable.
[He-P 4044.11(e) and (h)]
Records of periodic smear surveys for radioactive
 contamination, if applicable.
[He-P 4044.11(f) and (h)]
Records of area surveys.
 [He-P 4044.11(g) and (h)]
Records of releases of radioactive material to
 unrestricted areas. [He-P 4044.12]
uniestricted areas. [He-F 4044.12]
<u>Therapy</u>
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Records of authorized user training and experience
 per He-P 4047.04(e).
 Records of therapy physicist training and
experience per He-P 4047.04(f).
 Records of machine operator training and
experience per He-P 4047.11(g).
Records of current and former operators.
[He-P 4047.04(h) and (i)]
Written safety procedures.
[He-P 4047.04(k) and (l)]
Records on visiting authorized users.
 [He-P 4047.04(o)]
Records maintained pursuant to He-P 4047.04(s).
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(The above are only some of the items that may be
(The above are only some of the items that may be
reviewed. Part He-P 4047 contains extensive
requirements for measurements, record keeping,
and documentation. See Sections He-P 4047.05 et
seq.)